Heart Muscle Stomach Brain Thymus Thymus Spleen Spleen Treated Extracts Untreated Cell Response to BNF and Tissue Extracts Blank Fat Midney Fat Fat Festis Festis Treated Blank Blank ပ щ 500 400 300 200, 100 60₁ 20 10 50 40 30 0 BEQ (ng) in 1 g of tissue BNF equivalent (ng) Extracts 1000C Lung 250C 1000C Blank BNF 520C DMSO 100°C Blank B, иі **DW20** Fig. 1. Reporting 400 300 200 100 45 40 35 30 25 20 15 10 0 0 BNF equivalent (ng) BNF equivalent (ng) 100 1000 N. Base BNF concentrations Ваѕе 9 M. Base Base Blank N. Ba N. Base ä $\vec{\Box}$ 00 (ng) finaleviupe 4M8 35 2 \mathfrak{C} Luciferase activity in RLU

Fig. 2. Preliminary Purificiation of AhR Ligands

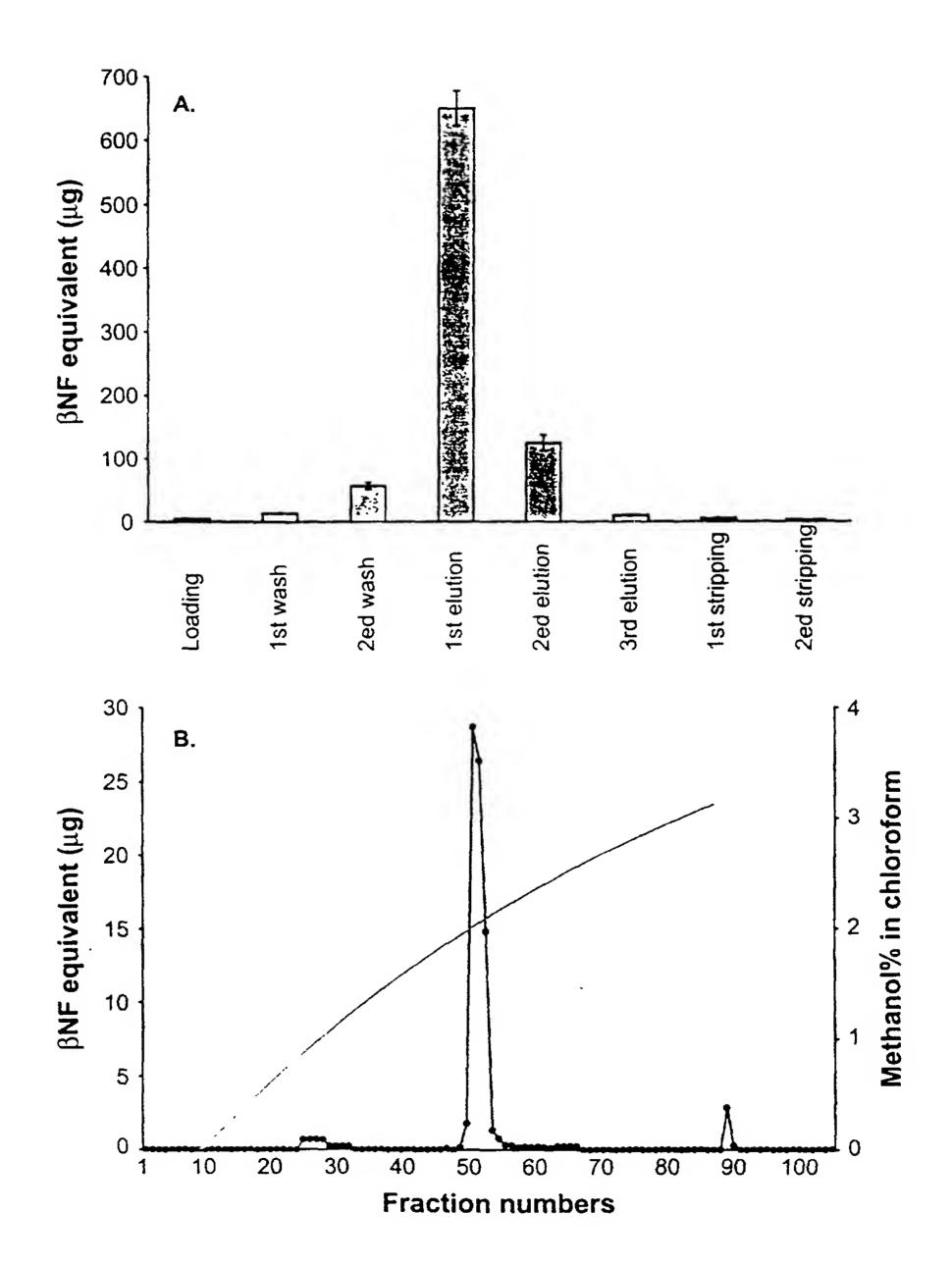


Fig. 3. HPLC Purification of AhR Ligands

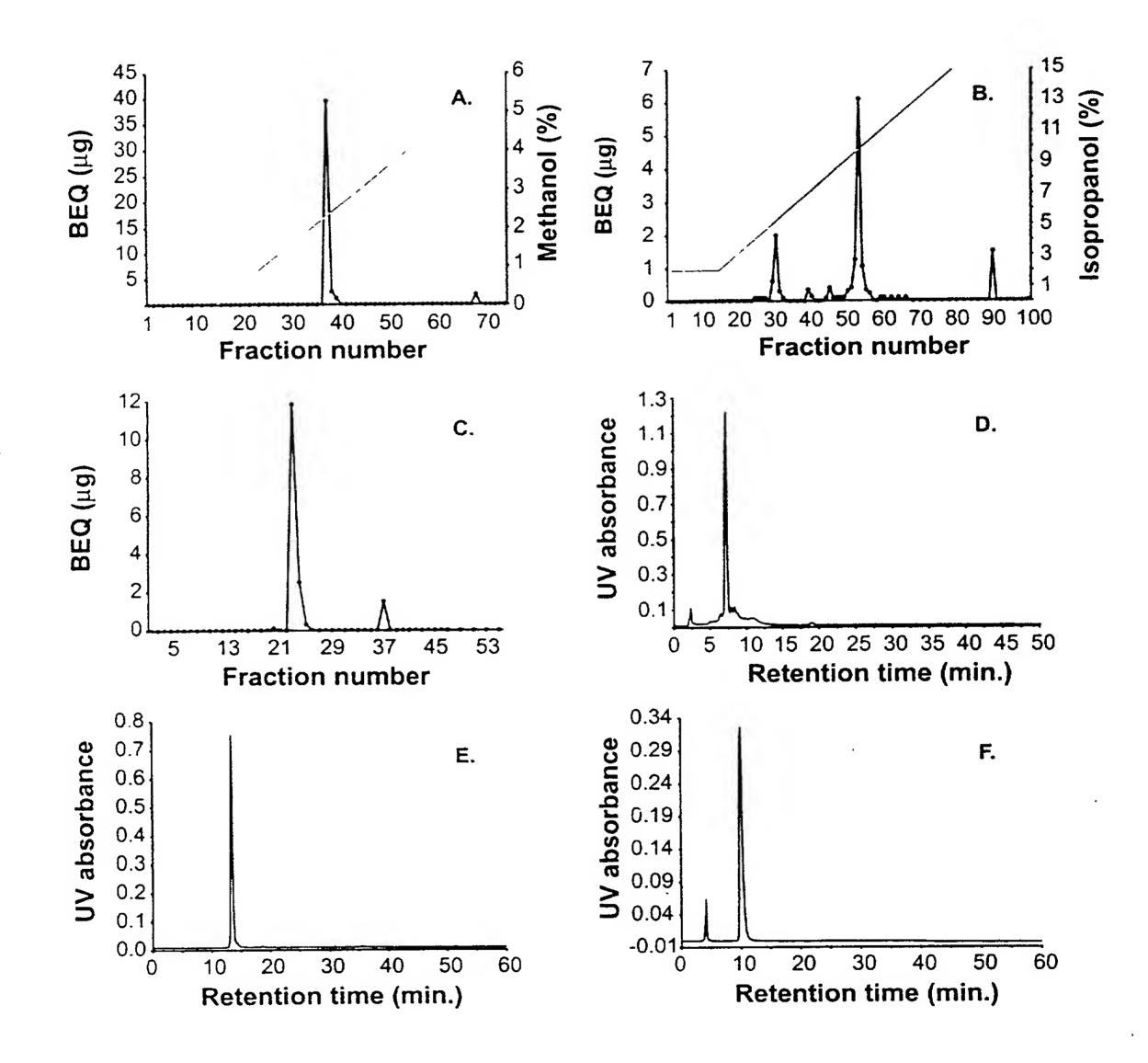


Fig. 4. HPLC Chromatogram and UV Spectrum of the Purified AhR Ligand

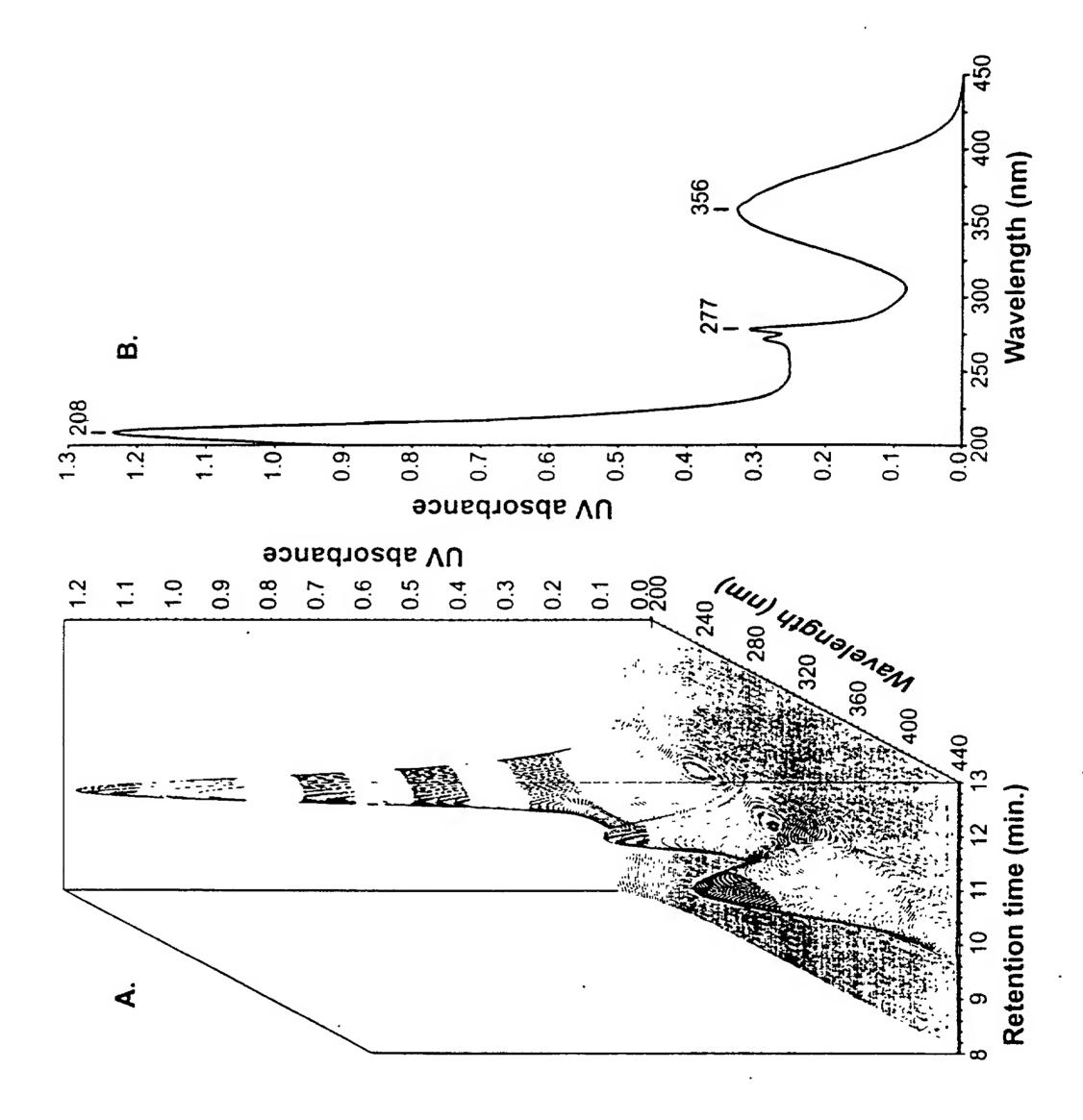


Fig. 5. Electron Impact Mass and FT-IR Spectra

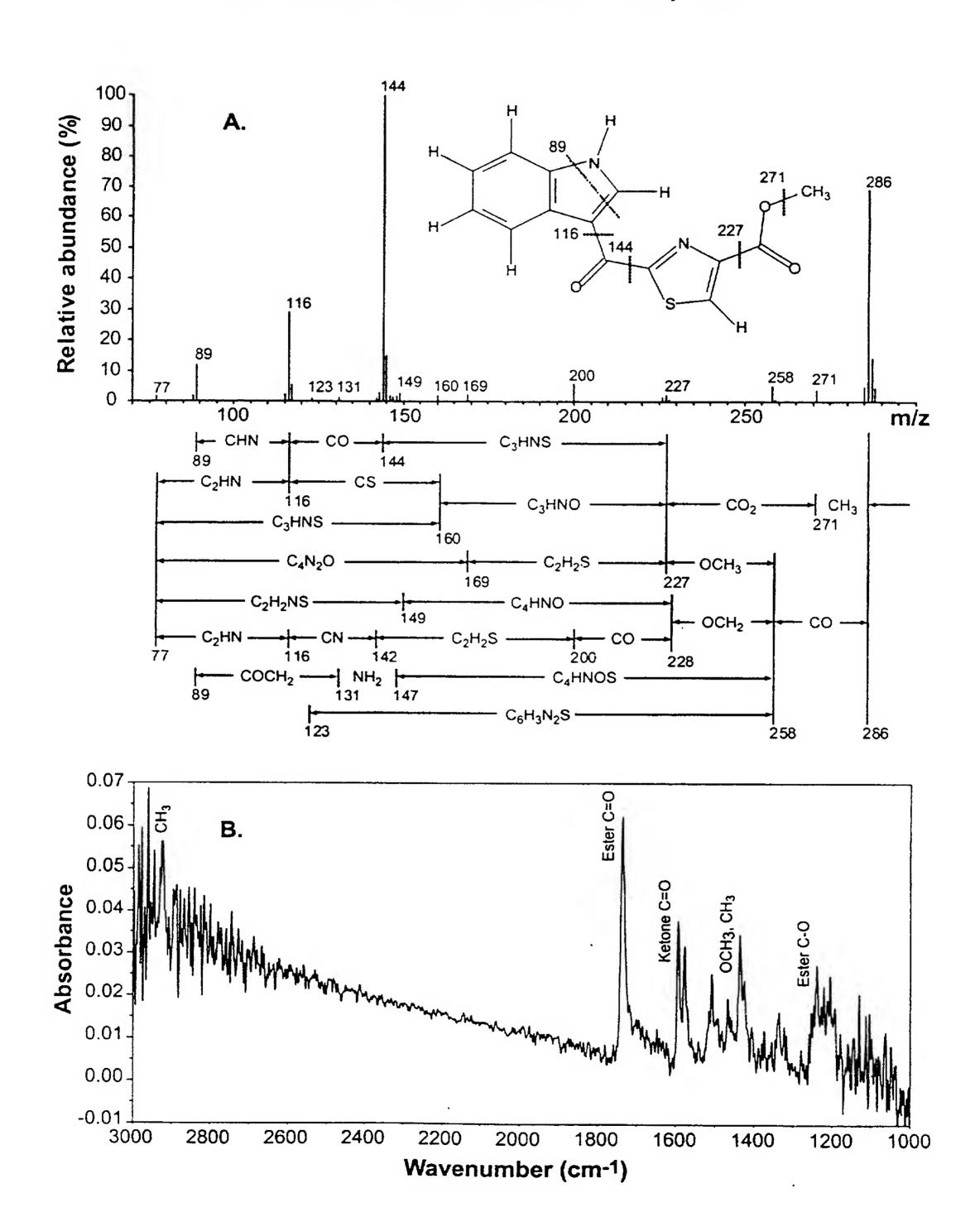
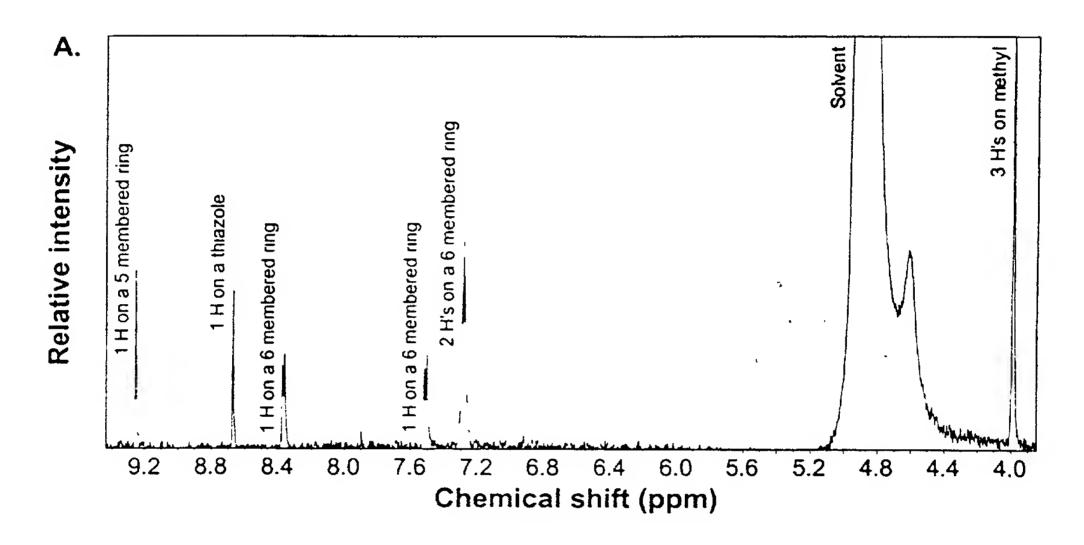


Fig. 6. Proton NMR Spectrum and Proton-carbon-13 Correlation



B.	¹ H	Number	HSQC	HMBC		
	(ppm)	of ¹ H	¹³ C (ppm)	¹³ C (ppm)	¹³ C (ppm)	¹³ C (ppm)
	3.99	3	54.50	165.00		
	7.27	1	125.10			
	7.28	1	126.15			
	7.50	1	114.45	125.10	129.50	
	8.36	1	124.25	126.15	139.50	
	8.67	1	135.25	150.10	173.10	
	9.25	1	141.05	115.10	129.50	139.50

Fig. 7. The Structure of ITE and Dose Responses of ITE and βNF

